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A focus on all common materials of civil engineering/construction— Portland cement concrete, mortar, grout, soil, wood, wood products, asphalt, asphalt concrete, aggregates, masonry, plastics, iron, steel, stone, admixtures, and composites.

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This book deals with properties, applications and analysis of important materials of construction/civil engineering. It offers full coverage of how materials are made or obtained, their physical properties, their mechanical properties, how they are used in construction, how they are tested in the lab, and their strength characteristics--information that is essential for material selection and elementary design. Contains illustrative examples and tables and figures from professional organizations. KEY TOPICS: Considers all common materials of civil engineering/construction--and looks at each in depth: e.g., physical properties, mechanical properties, code provisions, methods of testing, quality control, construction procedures, and material selection. Discusses laboratory testing procedures for selected tests--provides step-by-step descriptions of laboratory test procedures to determine properties of materials. All test procedures are based on relevant ASTM specification. MARKET: For Civil Engineers, Construction Engineers, Architects, and Agricultural Engineers.

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Civil Engineering Materials explains why construction materials behave the way they do. It covers the construction materials content for undergraduate courses in civil engineering and related subjects and serves as a valuable reference for professionals working in the construction industry. The book concentrates on demonstrating methods to obtain, analyse and use information rather than focusing on presenting large amounts of data. Beginning with basic properties of materials, it moves on to more complex areas such as the theory of concrete durability and corrosion of steel. Discusses the broad scope of traditional, emerging, and non-structural materials Explains what material properties such as specific heat, thermal conductivity and electrical resistivity are and how they can be used to calculate the performance of construction materials. Contains numerous worked examples with detailed solutions that provide precise references to the relevant equations in the text. Includes a detailed section on how to write reports as well as a full section on how to use and interpret publications, giving students and early career professionals valuable practical guidance.

For courses in Civil Engineering Materials, Construction Materials, and Construction Methods and Materials offered in Civil, Environmental, or Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior of materials - a fundamental requirement for all civil and construction engineers performing design, construction, and maintenance. The authors cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to the introductory level, concentrating on current practices, and extracting information that is relevant to the general education of civil and construction engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice and review.

"Surveying Fundamentals and Practices, Sixth Edition," covers up-to-date surveying technology without losing perspective of the need to provide students with a strong foundation in traditional surveying fundamentals. Through clear explanations and applied examples, the text presents the methods of measuring and computing distances, angles, and directions. It provides students with a firm grasp of modern equipment and office and field procedures related to horizontal control surveys, property surveys, topographic surveys, roadway curve calculations, and construction layout surveys. The sixth edition offers students a "user-friendly" text that they will be able to rely on as a meaningful learning tool in class and at home. Plus! A companion student website, "MyConstructionKit," is now available! MyConstructionKit is an online resource that offers a wealth of study tools to engage students for a variety of Pearson construction management, architecture, and civil engineering technology textbooks!

This expansive volume presents the essential topics related to construction materials composition and their practical application in structures and civil installations. The book's diverse slate of expert authors assemble invaluable case examples and performance data on the most important groups of materials used in construction, highlighting aspects such as nomenclature, the properties, the manufacturing processes, the selection criteria, the products/applications, the life cycle and recyclability, and the normalization. Civil Engineering Materials: Science, Processing, and Design is ideal for practicing architects: civil, construction, and structural engineers, and serves as a comprehensive reference for students of these disciplines. This book also: · Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure · Discusses properties of natural and synthetic materials in construction and materials' manufacturing processes · Addresses topics important to professionals working with structural materials, such as corrosion, nanomaterials, materials life cycle, not often covered outside of journal literature · Diverse author team presents expert perspective from civil engineering, construction, and architecture · Features a detailed glossary of terms and over 400 illustrations

Capitalize on a Comprehensive New Process for Planning and Designing Sustainable Green Communities Written by internationally renowned architect Avi Friedman, Sustainable Residential Development equips you with a much-needed process and examples for planning and designing green communities. This landmark resource explains the principles of green building and how to apply them to residential development, presenting guidelines for creating communities that balance social, economic, and environmental needs. Filled with plans, elevations, and vignettes, the book shows how to incorporate wind direction, sun exposure, tree preservation, topography, and public spaces into site plan. It also shows how to design high-density neighborhoods...apply green design and construction principles by using local materials and techniques, solar power, waste management, and water efficiency...as well as rehabilitate neighborhoods while respecting their heritage. Sustainable Residential Development features: Expert guidelines for planning and designing communities that balance social, economic, and environmental needs A wealth of international and U.S. case studies and examples that illustrate the principles of sustainable community design Over 100 downloadable plans and elevations that offer a head start for planning and designing sustainable communities Inside this Green Planning and Design Guide: · Defining and Applying Principles of Sustainability in Neighborhood Development · Learning Lessons from the Past: The Rise of Suburbia · Site Selection and Analysis · Strategies for High-Density Neighborhoods: The New Urbanism · Planning, Design, and Construction Principles for Sustainability · The Urban Renewal Process and Architectural Heritage · Balancing Environmental, Cultural, and Economic Needs: A Framework for Greener Neighborhoods

Traffic, highway, and transportation design principles and practical applications This comprehensive textbook clearly explains the many aspects of transportation systems planning, design, operation, and maintenance. Transportation Engineering: A Practical Approach to Highway Design, Traffic Analysis, and Systems Operations explores key topics, including geometric design for roadway alignment; traffic demand, flow, and control; and highway and intersection capacity. Emerging issues such as livable streets, automated vehicles, and smart cities are also discussed. You will get real-world case studies that highlight practical applications as well as valuable diagrams and tables that define transportation engineering terms and acronyms. Coverage includes: · An introduction to transportation engineering · Geometric design · Traffic flow theory · Traffic control · Capacity and level of service · Highway safety · Transportation demand · Transportation systems management and operations · Emerging topics

This thorough update of a well-established textbook covers a core subject taught on every civil engineering course. Now expanded to cover environmental hydraulics and engineering hydrology, it has been revised to reflect current practice and course requirements. As previous editions, it includes substantial worked example sections with an on-line solution manual. A strength of the book has always been in its presentation these exercises which has distinguished it from other books on hydraulics, by enabling students to test their understanding of the theory and of the methods of analysis and design. Civil Engineering Hydraulics provides a succinct introduction to the theory of civil engineering hydraulics, together with a large number of worked examples and exercise problems with answers. Each chapter includes a worked example section with solutions; a list of recommended reading; and exercise problems with answers to enable students to assess their understanding. The book will be invaluable throughout a student's entire course – but particularly for first and second year study, and will also be welcomed by practising engineers as a concise reference.